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HONEYWELL INTERNATIONAL INC.			STREGE, JOHN B	
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DATE MAILED: 08/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 10/055,876 Examiner John B. Strege ars on the cover sheet with the country of the cover sheet with the cover sheet with the country of the cover sheet with the cover she	S) OR THIRTY (30) DAYS, N. hely filed the mailing date of this communication. D (35 U.S.C. § 133). The mailing date of the communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of the mailing date of the mailing date of the communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 133). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date of this communication. D (35 U.S.C. § 134). The mailing date
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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/17/06 has been entered.

Response to Amendment

The amendment filed 7/17/06 has been entered in full.

Response to Arguments

Applicant's arguments filed 7/17/06 have been fully considered but they are not persuasive. Specifically the Applicant argues that the "feature vector" in the Lewis reference is substantially different in that it is used to identify a color of an image and lacks many of the claimed limitations. The Examiner respectfully disagrees. The amended limitations are referred to in the rejection below.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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2. Claims 1-10, and 12-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Lewis et al. USPN 5,673,331 (hereinafter "Lewis").

Lewis discloses a method of processing an image, comprising: receiving one or more sub images within an image; separating each sub image from the image (col. 7 lines 25-32 disclose that a video camera captures one or more signal of a meter, converts the signals to a digital representation, and each region of the digital representation that corresponds to the scale of a meter is calibrated, thus one or more sub images are received and each sub image is separated from the image); associating a template with each sub image (col. 5 lines 19-22); Lewis discloses an image calibrator 7 that performs the functions of defining the required parameters for each meter appearing in the digitized image (col. 4 lines 44-46). This image calibrator describes feature vectors (col. 4 line 50-67) associated with each template (col. 5 lines 19-22) to locate one or more features within the sub images, wherein the feature vectors are represented as a collection of three pixel coordinates for each sub-image (each region of the digital representation which corresponds to the scale of a meter is calibrated, col. 7 lines 29-30, this calibration includes three pixel coordinates [the pivot pixel point of the needle is used as well as the leftmost pixel point of travel and the rightmost pixel point of ravel of the needle, col 4. lines 50-67]) and each sub image representing a graphical symbol (each sub image represents a meter which is a graphical symbol), and a shape for each graphical symbol also reflected in the feature vector to which it relates (the annular shape of the meter is represented by the inner and outer radius of the visible portion of the needle (col. 4 lines 54-58) along with its coverage attributes within the

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image (the calibration as set forth is to determine the coverage attributes of the meter such as clipping level and density); and processing one or more rules associated with one or more of the located features (col. 5 lines 41-60, and col. 7 lines 33-64, the Examiner notes that by carrying out the procedure the invention is using rules).

Regarding claim 2, Lewis discloses calculating an instrument reading using one or more associated rules (col. 7 line 33-49).

Regarding claim 3, Lewis discloses storing the meter reading, thus it must be transmitted to memory (col. 7 lines 50-55).

Regarding claim 4, as discussed the sub images represent meter panels.

Regarding claim 5, Lewis discloses that the method can be synchronized such that the steps are repeated (col. 7 lines 50-64).

Regarding claim 6, the period is customizable (col. 7 lines 50-64).

Claim 7 is similar to claim 1, except claim 7 is broader since there are no templates disclosed. Thus all of the limitations of claim 7 have been addressed in the rejection of claim 1.

Regarding claim 8, Lewis discloses calibrating the isolation step (col. 4 lines 38-65).

Regarding claim 9, Lewis discloses determining a degree of angular orientation associated with calibrating and using the angular orientation in isolating each image feature (col. 5 lines 1-17).

Regarding claim 10, as discussed the instrument is a control panel.

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Claim 12 is similar to claim 1 except that claim 12 is a broader claim, thus the same arguments used for claim 1 apply equally to claim 12.

Claims 13-14 are similar to claim 1 except claims 13-14 are computer readable medium claims, thus the same arguments used for the rejection of claim 1 apply equally to claims 13-14.

Regarding claims 15-17, as discussed Lewis discloses associating an instrument reading with the feature image and that the reading depends on the orientation of feature image within the image data (col. 6 lines 31-37).

Regarding claim 18, Lewis discloses using optical character recognition to determine digits (col. 6 lines 11-16).

Claim 19 is similarly analyzed to claims 1 and 12.

Regarding claim 20, as discussed Lewis discloses storing the data thus the data must be transmitted to memory.

Regarding claim 21, Lewis discloses parameter data (attribute data) that is used by the algorithm (rules data, col. 5 lines 40-60).

Claim 22 is similarly analyzed to claim 1.

Regarding claims 23 and 25, Lewis discloses a mapping set of executable instructions to map the location to a value (col. 5 lines 40-60).

Regarding claim 24, as discussed the value is associated with a reading on an instrument panel.

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Regarding claims 26-27, Lewis discloses a camera controlling set of executable instructions operable to capture one or more additional images at configurable periods (col. 3 lines 29-45, col. 7 lines 50-64).

Regarding claim 28, Lewis discloses an image enhancing set of instructions operable to improve a quality associated with the image (col. 6 lines 4-16).

Regarding claim 29, Lewis discloses a calibration set of executable instructions operable to calibrate the captured image (col. 4 lines 38-67).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis et al. USPN 5,673,331 (hereinafter "Lewis").

Regarding claim 11, Lewis does not explicitly disclose that the meter is used in an aircraft, marine vehicle, or land vehicle. However the invention of Lewis applies to any type of meter and it is well known that airplanes, marine vehicles, and land vehicles have meters, thus the Examiner declares official notice that it would be obvious to use a meter in an airplane, vehicle, etc. The motivation is that the meters in vehicles need to be monitored.

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Strege whose telephone number is (571) 272-7457. The examiner can normally be reached on Monday-Friday between the hours of 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JS

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